Form MR-SMO (Revised March 26, 2007) This Section for DOGM Use:
Assigned DOGM File No.: S 0 470095
DOGM Lead: Jan Moy Sc
Permit Fee \$ 1500 Ck # 1674

Task 10# 2258

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

1594 West North Temple Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Telephone: (801) 538-5291 Fax: (801) 359-3940

NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program.

"Small Mining Operations" mining operations which have a disturbed area of five or less surface acres at any time.

. GENERAL INFORMATION (Rule R647-3-104)			
١.	Name of Mine: RLR Site #4		
2.	Legal name of entity (or individual) for whom the permit is being resources, Inc. Mailing Address: 6985 Union Park Center, Suite 375 City, State, Zip: Cottonwood Heights, Utah 84047 Phone: 801-878-8100 Fax: 801-878-8101 E-mail Address: jpatten@ecoshale.com Type of Business: Corporation (X) LLC () Sole Proprietorship (description of the partnership () General or limited or: Individual ()		
	Entity must be registered (and maintain registration) with the Division of Corporations (DOC) www.commerce.utah.gov. Are you currently registered to do business in the State of Utah? Entity # 6542120-0143 If no, contact www.commerce.utah.gov to renew or apply. Local Business License # (if required)		

Form MR-SMO Revised March 26, 2007 DIV. OF OIL, GAS & MINING

3.	Contact Person(s) Name: <u>Dr. James W. Patten</u> Address: <u>6985 Union Park Center, S</u> City, State, Zip: <u>Cottonwood Heights</u> Phone: <u>801-878-8100</u> Emergency, Weekend, or Holiday Pt E-mail Address: <u>jpatten@ecoshale.ce</u>	s, Utah 84 Fax: <u>8</u> hone:	<u>4047</u> <u>01-878-8101</u>	
	Contact person to be notified for: check all that apply) Name: Same as above Address:	permittir Title:	ng (X) surety (X) Notic	es (X) (please
	City, State, Zip: Phone: Emergency, Weekend, or Holiday Ph E-mail Address:	Fax: hone:		
	Contact person to be notified for: check all that apply) Registered Utah Agent (as identified individual leave blank): Name: Todd Dana Address: Same as above City, State, Zip:			
	Phone: <u>801-878-8100</u> E-mail Address: <u>td@ecoshale.com</u>	Fax: <u>8</u>	<u>801-878-8101</u>	
	Other Name: Laura Nelson Address: Same as Above City, State, Zip: Phone: 801-878-8105 Email: Inelson@ecoshale.com	Fax: <u>8(</u>	01-878-8101	
4.	If Business is a: Sole Proprietor: Sole Proprietor: Name of Owner: Business Address: City, State, Zip: Phone:	Title: Fax:		
	E-mail Address: If Business is a Corporation: Name of Officers: Dr. James W. Patten Todd Dana Headquarters Address: 6985 Union City, State, Zip: Cottonwood Heights	s, Utah 84	.047	APPROVED
	Headquarters Phone: <u>801-878-8100</u> E-mail Address: <u>jpatten@ecoshale.c</u>		Fax: <u>801-878-8101</u>	MAY 13 2808

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	If Business is a Limi Managed ()	ited Liability Company: Member Managed () Manager
	Name of 1st Member	/Manager: Title:	
	Business Address:		
	City, State, Zip:		
	Phone: Fax: E-mail Address:		
	E-mail Address.		
	Name of 2nd Member	r/Manager:	
	Business Address:		
	City, State, Zip:		
	Phone: Fax: E-mail Address:		
	E-mail Address.		
	If Business is a Part	nership:	
	Name of Partner:		
	Business Address: City, State, Zip:		
	Phone: Fax:		
	E-mail Address:		
_			
5.	Ownership of Land	Surface:	
		lic Domain (BLM) () National Forest (USFS)	()
		iool Sections (X) State Sovereign Lands ()	
	Other (please describ		**************************************
	Name Name	Address Address	
	Name	Address	
6.	Ownership of Miner		
		lic Domain (BLM) () National Forest (USFS)	()
	Other (please describ	nool Sections (X) State Sovereign Lands ()	
	Name	Address	
	Name	Address	
	Name	Address	
	BLM Lease or Project	t File Number(s) and/or USFS assigned Proje	ct Number(s):
	BLM Claim Number(s	s):	APPROVED
	Utah State Lease Nur	mber(s):48808.0	MAY 13 2008
	Name of Lessee(s): I	Red Lead Resources, Inc.	DIV. OIL GAS & MINING
7.	Have the above surf Yes (X) No () If no, why not?	face and mineral owners been notified in w	riting?

Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon

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4.	Will any water, liquid chemicals, reagents, or other solutions produced or discharged as part of the mining or milling proceed () No (X) If yes, please describe (add extra pages if needed	ess?
5.	Provide a brief description of the proposed mining operation processing facilities (add extra pages if necessary). ATTACHED	
6.	() New Road(s) : Length (ft)Width (ft)	
7.	(X) Improved Road(s): Provide a description of the improvements made to existing roads to access the site, including the Length (ft) improvements. Existing Road: Atchee Ridge Length (ft)80 Width (ft)30	
8.	Total project surface acreage to be disturbed: (<u>5 acres</u>) PLEA: EXACT ACREAGE - (this will be used to determine surety bor #VI).	
9.	Proposed startup date of project (month, year): May	2008
10.	Proposed completion date of project, if known (month, year)	November 2012_
IV.	OPERATION AND RECLAMATION PRACTICES (Rule R647-	3-107, 108 & 109)
least 7 / Oper year) o	The reclamation and operation obligation is to keep the area clear ize hazards to public safety, return the land to a useful condition, an 70 percent of the premining vegetative ground cover. To accomplish rator will need to perform reclamation concurrently, or at the complet of mining. Please refer to The Practical Guide to Reclamation in Utangm.utah.gov.	d reestablish at this, the Permittee tion (within one (1)
1. Kee	p the mining operation in a safe, clean, and environmentally stable con	dition.
2. Peri	manently seal all shafts and tunnels to prevent unauthorized or acciden	tal entry.
	g drill holes with a five foot cement surface plug. Holes that encounter fled in the subsurface to prevent aquifer contamination.	uids are to be
4. Con	struct berms, fences, or barriers, when needed, above highwalls and e	xcavations.
5. Ren regula	nove, isolate, or neutralize all toxic materials in a manner compatible wi tions.	ith federal and state
6. Ren	nove all waste or debris from stream channels.	
7. Disp	pose of any trash, scrap metal, wood, machinery, and buildings.	
8. Con	duct mining activities so as to minimize erosion and control sediment.	APPROVED
9. Rec	laim all roads that are not part of a permanent transportation system.	MAY 13 2008
10. Sta	ockpile topsoil and suitable overburden prior to mining.	DIV. OIL GAS & MINING

- 11. Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.
- 12. Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.
- 13. Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)
- 14. Plant the seed with a rangeland or farm drill, or broadcast the seed. Fall is the preferred time to seed.

V. VARIANCE REQUEST (Rule R647-3-110)

Any variance request must be approved in writing by the Division

Yes () No (X)

1 . Variance Degreeted

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see **IV. Operation and Reclamation Practices** Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measure to be utilized. A variance shall be granted if the alternative method or measure proposed will be consistent with the Act.

ist variance Requ	ested		
Item # reclaimed) Justification:	Applicable Rule # (i.e. R647-3-109.10 (if	f you did not want trenches & pits	
Alternate methods or measure to be utilized:			
2 _{nd} Variance Requ	uested		
Item # Justification:	Applicable Rule #		
Alternate methods	s or measure to be utilized:		
3rd Variance Requ	ested		
Item # Justification:	Applicable Rule #		
Alternate methods	s or measure to be utilized:		
Attach additiona	I page If more variances are reque	ested.	

VI. <u>SURETY</u> (Act 40-8-7(1)[c])

A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations.

The Utah Mined Land Reclamation Act (40-8-7 (1)[c] and 40-8-14 provides the authority that all mining operations furnish and maintain reasonable surety to guarantee that the land affected is reclaimed.

The surety amount is based on the nature, extent and duration of operations. The surety amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions.

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MAY 13 2008 DIV. OIL GAS & MINING Surety for small mines sites will be escalated three (3) years to the future. Contact the Division for dollar amount required for this project.

I will provide surety in the form of a: Certificate of Deposit, Letter of Credit, Surety Bond, Cash (certified funds), or Division Approved form.

VII. PERMIT FEE [Mined Land Reclamation Act 40-8-7(1)(i)]

The Utah Mined Land Reclamation Act of 1975 [40-8-7(1)(i)] provides the authority for the assessment of permitting fees. Commencing with the 1998 fiscal year (July 1 - June 30), permit fees are assessed to new and existing notices of intention, and annually thereafter, until the project disturbances are successfully reclaimed by the Permittee / Operator and released by the Division.

Small Mine Notices require a \$150.00 fee which must accompany this application or it cannot be processed by the Division.

VIII. SIGNATURE REQUIREMENT

(Please check the box if applicable and place your initials on the line provided)

X) I have enclosed the required permit fee.

I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Oil, Gas and Mining and any other authorized regulatory agency.

CERTIFICATION

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

a. I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND

b. I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.

c. This certification must be executed by an executive officer if the applicant is a corporation; by a partner if applicant is a partnership (general or limited); owner if applicant is a sole proprietorship; member or manager if applicant is a limited liability company.

if applicant is a limited liability company.	, /
Signature:Dat	e: 2/22/08
Name (typed or printed): <u>Dr. James Patten</u> ,	_
Title/Position (if applicable): President & CEO	APPROVED
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- 9. To the best of Red Leaf's understanding and site review, there appear to be no preexisting, un-reclaimed, surface or underground mining disturbances located on the site.
- 10. Red Leaf has identified a 5 acre disturbance on the site. The proposed area for mining is 3 acres, comprised of two excavation areas each 1.5 acres in size. Excavations will not be done simultaneously. The first 1.5 acre excavation will be prepared, lined with an impermeable barrier, fitted with metal pipes and the ore deliberatively place back in the impound. The liner will be placed over the top of the mound and the overburden replaced and reseeded. This process excavation and replacement will take approximately 90 days. Three (3) acres of the area will be used to store the shale and overburden during the construction phase. Once the first cell is completed the second excavation will be initiated with the displaced overburden and mined shale similarly stored on the remaining acres. Once pits are completed, there is no further need to excavate on the site. The areas identified are inclusive of all areas needed for equipment, staging, stockpiling, processing, and structures on site.
- 11. RLR will drill one core hole within the 5 acre site (reference Figure 2, Site 4).
- 12. On site gas burners used for heating will be on skids and removable at the end of the operations. No permanent structures will be erected.
- 13. Figure 2.0 Site 4 shows the exploration site and the proposed area of disturbance for the capsule construction. This location is inclusive of equipment. Figure 3.0 Site 4 depicts a generic site arrangement.
- 14. Red Leaf is currently conducting an exploration project, Southwest #1, in accordance with its permit for Exploration and Reclamation issued October 24, 2007. As part of that process, Red Leaf will be identifying appropriate markets, haul routes, production targets, sales prices and potential for annual sales. Once collected, this data will be provided to the Division of Oil Gas and Mining.
- 15. Exact tonnage and volume on the site will de determined based on ore density at the site and reported to the Division of Oil Gas and Mining.
- 16. Red Leaf Resources will conduct reclamation consistent R647-3-109.

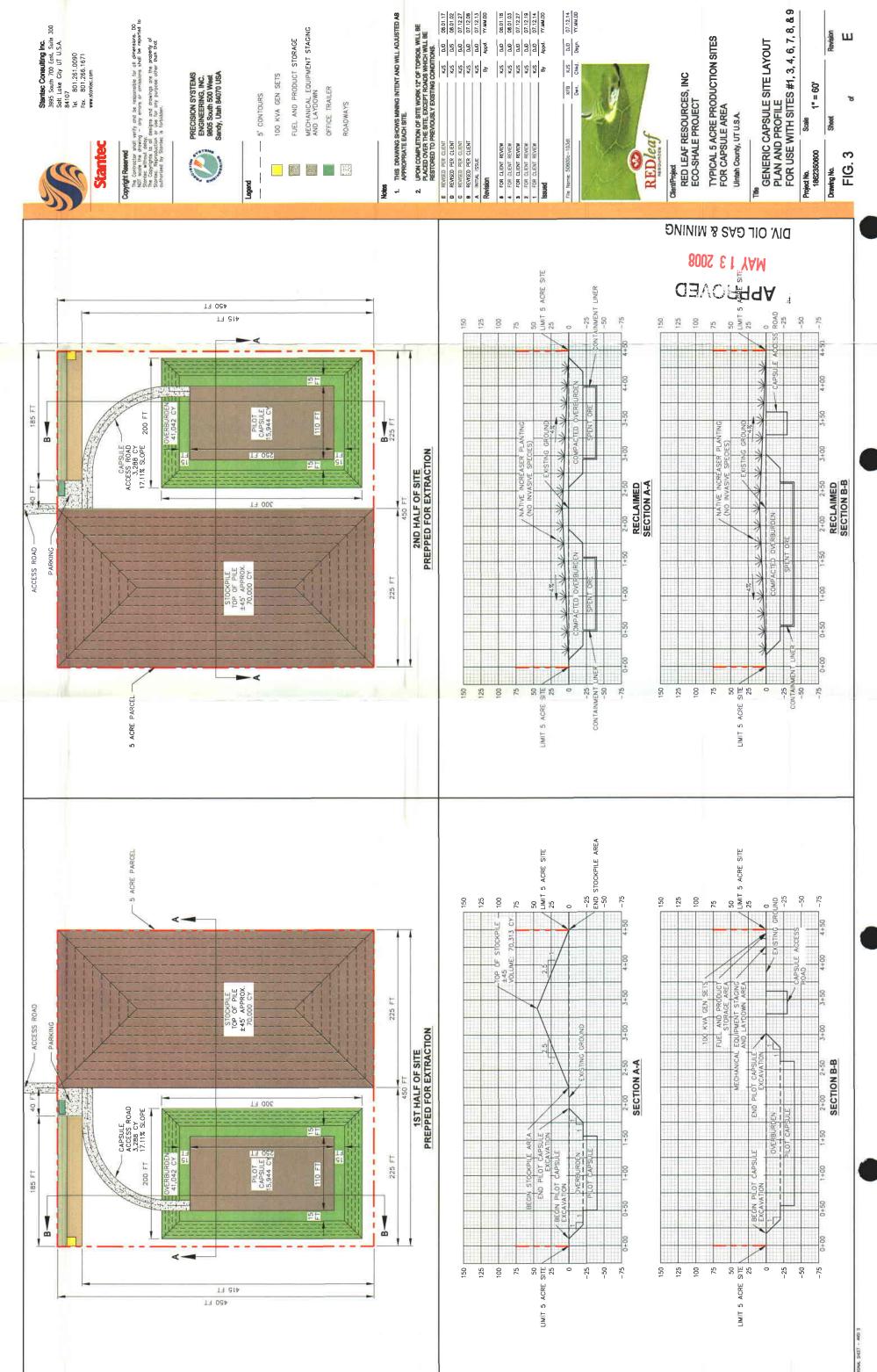
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